



Ingwenya Mineral Tech Pvt. Ltd.

Mineral Upgradation Specialists



IMT - Under Pulsated JIGS (PLC Controlled JIGS)

IMT-PLC JIGS are extensively used in Mineral and Coal processing industries and specialises in offering programmable logics to suit customers applications.

IMT offers complete design & detailed engineering for the jigging plants and thus offers complete solutions to the customers requirement in a single window and thus provides a very cost effective and time saving options.

IMT-PLC JIGS designs include separation of rejects, middling and the products and the designs are tailor made to suit specific applications.

IMT is **India's only company** with Totally Indigenously developed technology and service support on call within 24 hours giving a great advantage to the customer in the **CAPITAL COSTS & SERVICE SUPPORT**.

Since the introduction of this product in 2009, within a short span of a decade, **IMT** has already achieved many firsts in the industry by supplying the Largest Iron ore jigging units in India (5.0 m wide x 3 chambers) and for the first time in India, has successfully designed, installed and commissioned **IMT-COMBO JIG** where the Iron Ore fines and Iron ore coarse feed material are processed in the same Jigging machine to cater to two different applications at the same time.



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IMT also has to its credit the **India's Second Largest Jigging Machine for Iron ore application** successfully installed and commissioned (3.5 m wide x 3 chambers Jigging machine)



Pneumatically operated cylinders with discharge gates controlled by the density sensors and total system managed by the PLC settings ensure that the Stratification of the different density material takes place quickly and finely resulting in precise cutting of the product in the process operations . Benefits to the customer are higher yields and minimum misplacement.

Sizes and Capacities offered are,

Application	Capacities tonne/hour	Sizes – Bed width
Iron Ore fines – 0 - 5 mm	10 to 200	0.5 m to 5.0 m
Iron Ore lumps – 5 mm - 50 mm	25 to 300	0.5 m to 5.0 m
Coal fines – 0 - 10 mm	40 to 400	0.5 m to 6.0 m
Coal lumps – 10 - 100 mm	50 to 500	0.5 m to 6.0 m
Manganese Lump – 12 - 60 mm	30 to 300	0.5 m to 5.0 m
Barytes – 5 - 40 mm	25 to 200	0.5 m to 3.0 m
Slag - Metal fines – 0 - 8mm	20 to 100	0.5 m to 2.5 m
Slag- Metal coarse – 8 - 15 mm	25 to 150	0.5 m to 2.5 m



Test unit available for conducting the bench scale tests to determine the amenability for gravity separation, sizing parameters and PLC settings.



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IMT - Baby Jigs

Modular jigging system developed for 50 & 100 tph complete with ancillaries and accessories mounted on a steel structures and can be installed & commissioned within a very short time of gestation (**3-4 months**). Thus the customer can reap the advantages of **LOW COSTS** and quick returns on investment.



IMT BABY JIGS are suitable for coal & minerals and has successfully installed in iron ore, baryte, manganese & coal in India.



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The **IMT BABY JIG** finds application in Metal Recovery Plants, utilising gravity separation technology, offers,

- High, cost-effective recovery of saleable metal: coarse metal (<2 % slag) at >95 % recovery, fines (<2 % slag) at >95 % recovery and ultrafines (<10 % slag) at >70 % recovery.
- Recovery of a wide range of metal alloys from slag dumps and other waste streams: ferromanganese (FeMn), ferronickel chrome (FeNiCr), ferrochrome (FeCr) and silicon
- Environmental benefits: removal of unsightly stockpiles, potential reduction in pollution and low energy usage.

Features of IMT BABY JIG

- Compact modular design and easy to install.
- Easily re-locatable enabling to install at various locations in the mine site or beneficiation plant.
- This unit requires only 3 mts x 8 mts space. This excludes the other facilities such as Feeding arrangement, Product handling system, Tailing disposal and water recovery system.
- Easy to install. Requires a RCC raft foundation only.
- Built in water clarification system works in tandem with small thickener or settling pond.
- Low capital investment compared to conventional jigging plant of similar capacity.
- This unit is a real work horse capable of working for long hours with interruption.



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